

## Refine Search

### Search Results -

| Terms   | Documents |
|---|-----------|
| ((number or rate or total) near3 request) near10 (activity near3 bus) | 4         |

Database:

US Pre-Grant Publication Full-Text Database  
 US Patents Full-Text Database  
 US OCR Full-Text Database  
 EPO Abstracts Database  
 JPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

Search:

L4 ▲▼





### Search History

DATE: Wednesday, May 09, 2007

[Purge Queries](#)[Printable Copy](#)[Create Case](#)**Set Name Query**

side by side

**Hit Count Set Name**

result set

*DB=PGPB,USPT; PLUR=YES; OP=OR*L4 ((number or rate or total) near3 request) near10 (activity near3 bus)4 L4L3 request near10 (activity near3 bus)261 L3*DB=USPT; PLUR=YES; OP=OR*L2 6073244.pn. or 5628019.pn.2 L2L1 6185692.pn.1 L1

END OF SEARCH HISTORY

## Freeform Search

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|   |  |
|---|--|
| <b>Database:</b>  | US Pre-Grant Publication Full-Text Database<br>US Patents Full-Text Database<br>US OCR Full-Text Database<br>EPO Abstracts Database<br>JPO Abstracts Database<br>Derwent World Patents Index<br>IBM Technical Disclosure Bulletins |
| <b>Term:</b>  | ((number or rate or total) near3 request) near10<br>(activity near3 bus)   |
| <b>Display:</b>   | 10 Documents in <b>Display Format:</b> - Starting with Number 1  |
| <b>Generate:</b> <input type="radio"/> Hit List <input checked="" type="radio"/> Hit Count <input type="radio"/> Side by Side <input type="radio"/> Image |  |

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Search

Clear

Interrupt

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### Search History

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 [Create Case](#)

#### Set Name Query

side by side

#### Hit Count Set Name

result set

*DB=PGPB,USPT; PLUR=YES; OP=OR*

|           |   |   |           |
|-----------|---|---|-----------|
| <u>L4</u> | ((number or rate or total) near3 request) near10 (activity near3 bus) | 4 | <u>L4</u> |
|-----------|---|---|-----------|

|           |                                     |     |           |
|-----------|-------------------------------------|-----|-----------|
| <u>L3</u> | request near10 (activity near3 bus) | 261 | <u>L3</u> |
|-----------|-------------------------------------|-----|-----------|

*DB=USPT; PLUR=YES; OP=OR*

|           |                            |   |           |
|-----------|----------------------------|---|-----------|
| <u>L2</u> | 6073244.pn. or 5628019.pn. | 2 | <u>L2</u> |
|-----------|----------------------------|---|-----------|

|           |             |   |           |
|-----------|-------------|---|-----------|
| <u>L1</u> | 6185692.pn. | 1 | <u>L1</u> |
|-----------|-------------|---|-----------|

END OF SEARCH HISTORY

## Refine Search

### Search Results -

| Terms  | Documents |
|--|-----------|
| ((variable adj1 speed) near5 bus) same (clock near3 frequency) | 4         |

Database:

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US OCR Full-Text Database  
EPO Abstracts Database  
JPO Abstracts Database  
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IBM Technical Disclosure Bulletins

Search:

L1

Refine Search

Recall Text

Clear

Interrupt

### Search History

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#### Set Name Query

side by side

#### Hit Count Set Name

result set

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR

L1   ((variable adj1 speed) near5 bus) same (clock near3 frequency)

4   L1

END OF SEARCH HISTORY

## Freeform Search

Database: US Pre-Grant Publication Full-Text Database  
US Patents Full-Text Database  
US OCR Full-Text Database  
EPO Abstracts Database  
JPO Abstracts Database  
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IBM Technical Disclosure Bulletins

Term:  ▲  
▼

Display:  Documents in Display Format:  Starting with Number

Generate: ☐ Hit List ☒ Hit Count ☐ Side by Side ☐ Image





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### Search History

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DATE: Wednesday, May 09, 2007   [Purge Queries](#)   [Printable Copy](#)   [Create Case](#)

Set Name Query  
side by side

Hit Count Set Name  
result set

*DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR*

|           |  |    |           |
|-----------|--|----|-----------|
| <u>L4</u> | L3 same request  | 3  | <u>L4</u> |
| <u>L3</u> | (var\$5 near3 speed) same bus same (clock near5 frequency)     | 24 | <u>L3</u> |
| <u>L2</u> | (variable adj1 speed) same bus same (clock near5 frequency)    | 9  | <u>L2</u> |
| <u>L1</u> | ((variable adj1 speed) near5 bus) same (clock near3 frequency) | 4  | <u>L1</u> |

END OF SEARCH HISTORY

## Refine Search

### Search Results -

| Terms  | Documents |
|--|-----------|
| (request near5 (rate or number)) same (activity near3 bus) | 35        |

Database:

US Pre-Grant Publication Full-Text Database  
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Search:

L5

Refine Search

Recall Text

Clear

Interrupt

### Search History

DATE: Wednesday, May 09, 2007  
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#### Set Name Query

side by side

#### Hit Count Set Name

result set

*DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR*

|           |  |    |           |
|-----------|--|----|-----------|
| <u>L5</u> | (request near5 (rate or number)) same (activity near3 bus)     | 35 | <u>L5</u> |
| <u>L4</u> | L3 same request  | 3  | <u>L4</u> |
| <u>L3</u> | (var\$5 near3 speed) same bus same (clock near5 frequency)     | 24 | <u>L3</u> |
| <u>L2</u> | (variable adj1 speed) same bus same (clock near5 frequency)    | 9  | <u>L2</u> |
| <u>L1</u> | ((variable adj1 speed) near5 bus) same (clock near3 frequency) | 4  | <u>L1</u> |

END OF SEARCH HISTORY

## Refine Search

### Search Results -

| Terms  | Documents |
|--|-----------|
| (361/683  361/684  361/685  361/686  322/32  709/233  370/257  710/33  710/300  710/307  710/58  710/240  710/309  710/15  710/60  710/313  712/32  340/825  713/600  713/501  713/320  713/322).ccls. | 16854     |

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Search:

L6



Refine Search

Recall Text



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SetName Queryside by  
side

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR

L6 710/33,300,307,58,240,309,15,60,313;713/600,501,320,322;340/825;370/257;709/233;322/32;36686;712/32.ccls.

L5 (request near5 (rate or number)) same (activity near3 bus)

L4 L3 same request

L3 (var\$5 near3 speed) same bus same (clock near5 frequency)

L2 (variable adj1 speed) same bus same (clock near5 frequency)

L1 ((variable adj1 speed) near5 bus) same (clock near3 frequency)

END OF SEARCH HISTORY

## Refine Search

### Search Results -

| Terms     | Documents |
|-----------|-----------|
| L5 and L6 | 4         |

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Search:

L7  



### Search History

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Set  
Name Query  
 side by  
 side

*DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR*

L7   L5 and L6

L6   710/33,300,307,58,240,309,15,60,313;713/600,501,320,322;340/825;370/257;709/233;322/32;36  
 686;712/32.ccls.

L5   (request near5 (rate or number)) same (activity near3 bus)

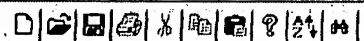
L4   L3 same request

L3   (var\$5 near3 speed) same bus same (clock near5 frequency)

L2   (variable adj1 speed) same bus same (clock near5 frequency)

L1   ((variable adj1 speed) near5 bus) same (clock near3 frequency)

END OF SEARCH HISTORY



Drafts

Pending

Active

- ☒ L1: (16) ((variable or var\$3
- ☒ L2: (0) 11 same (request near
- ☒ L3: (0) 11 and (request near
- ☒ L4: (0) 11 same request
- ☒ L5: (6) 11 and request

Failed

Saved

Favorites

Tagged (0)

UDC

Queue

Trash

Search List Browse Queue Clear

DBs USPAT

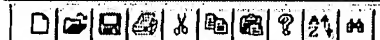
Default operator: OR

☒ Plurals☒ Highlight all hit terms initially

BRS form IS&amp;R form Image Text HTML

|   | Type | L # | Hits | Search Text                                      | DBs   | Time Stamp       | Comments | Error Definition | Err |
|---|------|-----|------|--|-------|------------------|----------|------------------|-----|
| 1 | BRS  | L1  | 16   | ((variable or var\$3) near3 speed) same bus same | USPAT | 2007/05/09 17:41 |          |                  |     |
| 2 | BRS  | L2  | 0    | 11 same (request near5 (number or rate))         | USPAT | 2007/05/09 17:42 |          |                  |     |
| 3 | BRS  | L3  | 0    | 11 and (request near5 (number or rate))          | USPAT | 2007/05/09 17:42 |          |                  |     |
| 4 | BRS  | L4  | 0    | 11 same request                                  | USPAT | 2007/05/09 17:43 |          |                  |     |
| 5 | BRS  | L5  | 6    | 11 and request                                   | USPAT | 2007/05/09 17:43 |          |                  |     |





- ☐ Drafts
- ☐ Pending
- ☒ Active
  - ☒ L1: (16) ((variable or var\$3
  - ☒ L2: (0) 11 same (request nea
  - ☒ L3: (0) 11 and (request near
  - ☒ L4: (0) 11 same request
  - ☒ L5: (6) 11 and request
- ☐ Failed
- ☐ Saved
- ☐ Favorites
- ☐ Tagged (0)
- ☐ UDC
- ☐ Queue
- ☐ Trash

DBs: USPAT

Default operator: OR

☒ Plurals☒ Highlight all hit terms initially

11 and request

|   | U                        | 1                        | Document ID   | Issue Date | Pages | Title  | Current OR | Current XRef         | R |
|---|--------------------------|--------------------------|---------------|------------|-------|--|------------|----------------------|---|
| 1 | <input type="checkbox"/> | <input type="checkbox"/> | US 6754840 B2 | 20040622   | 16    | Over-clocking detection system utilizing a reference | 713/500    |                      |   |
| 2 | <input type="checkbox"/> | <input type="checkbox"/> | US 6535988 B1 | 20030318   | 15    | System for detecting over-clocking uses a            | 713/500    | 713/600              |   |
| 3 | <input type="checkbox"/> | <input type="checkbox"/> | US 6079022 A  | 20000620   | 10    | Method and apparatus for dynamically adjusting the   | 713/300    | 713/320;<br>713/322; |   |
| 4 | <input type="checkbox"/> | <input type="checkbox"/> | US 5509126 A  | 19960416   | 25    | Method and apparatus for a dynamic, multi-speed bus  | 710/307    | 710/106              |   |
| 5 | <input type="checkbox"/> | <input type="checkbox"/> | US 5465240 A  | 19951107   | 41    | Apparatus and methods for displaying text in         | 369/1      | 360/48;<br>360/72.2; |   |
| 6 | <input type="checkbox"/> | <input type="checkbox"/> | US 4344132 A  | 19820810   | 21    | Serial storage interface                             | 710/60     | 327/114              |   |



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☐ Check to search only within this results set
Display Format: ☒ Citation ☐ Citation & Abstract

## » Key

IEEE JNL IEEE Journal or Magazine

IET JNL IET Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IET CNF IET Conference Proceeding

IEEE STD IEEE Standard

[Select All](#) [Deselect All](#)

- ☐ 1. **On the nature and inadequacies of transport timing delay constructs in V descriptions**  
 Walker, P.A.; Ghosh, S.;  
Computer-Aided Design of Integrated Circuits and Systems, IEEE Transaction:  
 Volume 16, Issue 8, Aug. 1997 Page(s):894 - 915  
 Digital Object Identifier 10.1109/43.644615  
[AbstractPlus](#) | [References](#) | Full Text: [PDF\(472 KB\)](#) IEEE JNL  
[Rights and Permissions](#)
- ☐ 2. **Automated bus generation for multiprocessor SoC design**  
 Kyeong Keol Ryu; Mooney, V.J., III;  
Computer-Aided Design of Integrated Circuits and Systems, IEEE Transaction:  
 Volume 23, Issue 11, Nov. 2004 Page(s):1531 - 1549  
 Digital Object Identifier 10.1109/TCAD.2004.835119  
[AbstractPlus](#) | [References](#) | Full Text: [PDF\(1144 KB\)](#) IEEE JNL  
[Rights and Permissions](#)
- ☐ 3. **/spl times/pipes Lite: a synthesis oriented design library for networks on**  
 Stergiou, S.; Angiolini, F.; Carta, S.; Raffo, L.; Bertozzi, D.; De Micheli, G.;  
Design, Automation and Test in Europe, 2005. Proceedings  
 2005 Page(s):1188 - 1193 Vol. 2  
 Digital Object Identifier 10.1109/DATE.2005.1  
[AbstractPlus](#) | Full Text: [PDF\(160 KB\)](#) IEEE CNF  
[Rights and Permissions](#)
- ☐ 4. **An accelerator for double precision floating point operations**  
 Danese, G.; De Lotto, L.; Leporati, F.; Scaricabarozzi, M.; Spelgatti, A.;  
Parallel, Distributed and Network-Based Processing, 2003. Proceedings. Eleve  
Conference on  
 5-7 Feb. 2003 Page(s):57 - 63  
[AbstractPlus](#) | Full Text: [PDF\(298 KB\)](#) IEEE CNF  
[Rights and Permissions](#)
- ☐ 5. **Evolution of television receivers from analog to digital**  
 van de Polder, L.J.; Parker, D.W.; Roos, J.;  
Proceedings of the IEEE  
 Volume 73, Issue 4, April 1985 Page(s):599 - 612

[AbstractPlus](#) | Full Text: [PDF\(1560 KB\)](#) IEEE JNL  
[Rights and Permissions](#)

- ☐ 6. **A generic multielement microsystem for portable wireless applications**  
Mason, A.; Yazdi, N.; Chavan, A.V.; Najafi, K.; Wise, K.D.;  
[Proceedings of the IEEE](#)  
Volume 86, Issue 8, Aug. 1998 Page(s):1733 - 1746  
Digital Object Identifier 10.1109/5.704279  
  
[AbstractPlus](#) | [References](#) | Full Text: [PDF\(364 KB\)](#) IEEE JNL  
[Rights and Permissions](#)
  
- ☐ 7. **A communication architecture tailored for analog VLSI artificial neural ne performance and limitations**  
Mortara, A.; Vittoz, E.A.;  
[Neural Networks, IEEE Transactions on](#)  
Volume 5, Issue 3, May 1994 Page(s):459 - 466  
Digital Object Identifier 10.1109/72.286916  
  
[AbstractPlus](#) | Full Text: [PDF\(624 KB\)](#) IEEE JNL  
[Rights and Permissions](#)
  
- ☐ 8. **A low-cost, 300-MHz, RISC CPU with attached media processor**  
Santhanam, S.; Baum, A.J.; Bertucci, D.; Braganza, M.; Broch, K.; Broch, T.; B Chang, E.; Kwong-Tak Chui; Dobberpuhl, D.; Donahue, P.; Grodstein, J.; Insui D.; Pearce, M.; Silveria, A.; Souydalay, D.; Spink, A.; Stepanian, R.; Varadhar: Kaenel, V.R.; Wen, R.;  
[Solid-State Circuits, IEEE Journal of](#)  
Volume 33, Issue 11, Nov. 1998 Page(s):1829 - 1839  
Digital Object Identifier 10.1109/4.726584  
  
[AbstractPlus](#) | [References](#) | Full Text: [PDF\(208 KB\)](#) IEEE JNL  
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- ☐ 9. **Integrating communication protocol selection with hardware/software co**  
Knudsen, P.V.; Madsen, J.;  
[Computer-Aided Design of Integrated Circuits and Systems, IEEE Transaction:](#)  
Volume 18, Issue 8, Aug. 1999 Page(s):1077 - 1095  
Digital Object Identifier 10.1109/43.775629  
  
[AbstractPlus](#) | [References](#) | Full Text: [PDF\(336 KB\)](#) IEEE JNL  
[Rights and Permissions](#)
  
- ☐ 10. **High-Speed FPGA-Based Pulse-Height Analyzer for High Resolution X-R:**  
Buzzetti, S.; Capou, M.; Guazzoni, C.; Longoni, A.; Mariani, R.; Moser, S.;  
[Nuclear Science, IEEE Transactions on](#)  
Volume 52, Issue 4, Aug. 2005 Page(s):854 - 860  
Digital Object Identifier 10.1109/TNS.2005.852699  
  
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## Integrating communication protocol selection with hardware/software codesign

Knudsen, P.V., Madsen, J.

Dept. of Inf. Technol., Tech. Univ. Denmark, Lyngby, Denmark;

This paper appears in: [Computer-Aided Design of Integrated Circuits and Systems, IEEE Transactions on](#)

Publication Date: Aug. 1999

Volume: 18, Issue: 8

On page(s): 1077 - 1095

ISSN: 0278-0070

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INSPEC Accession Number: 6326534

Digital Object Identifier: 10.1109/43.775629

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## Abstract

This paper explores the problem of determining the characteristics of the communication links in a computer system as well as determining the best functional partitioning. In particular, we present a communication estimation model and show, by the use of this model, the importance of integrating communication protocol selection with hardware/software partitioning. The communication estimation model allows for fast estimation but is still sufficiently detailed as to allow the designer or design tool to efficiently explore tradeoffs between throughputs, bus widths, burst/nonburst transfers, operating frequencies of system components such as buses, CPU's, ASIC's, software code size, hardware area, and component prices. A distinct feature of the model is the modeling of driver processing of data (packing, splitting, compression, etc.) and its impact on communication throughput. The integration of communication protocol selection and communication driver design with hardware/software partitioning is illustrated by a number of design space exploration experiments carried out within the LYCOS cosynthesis system, using models of the PCI and USB protocols

## Index Terms

Inspec

## Controlled Indexing

[hardware-software codesign](#)    [protocols](#)

## Non-controlled Indexing

[LYCOS cosynthesis](#)    [PCI protocol](#)    [USB protocol](#)    [communication protocol](#)    [computer system](#)    [driver data processing](#)    [estimation model](#)    [functional partitioning](#)    [hardware/software](#)

[codesign](#)**Author Keywords**

Not Available

**References**

- 1 J. Madsen, J. Grode, P. V. Knudsen, M. E. Petersen, and A. Haxthausen, "LYCOS: The Lyngby cosynthesis system," *Design Automat. Embedded Syst.*, vol. 2, no. 2, pp. 195-235, 1997.
- 2 D. Hermann, J. Henkel, and R. Ernst, "An approach to the adaptation of estimated cost parameters in the COSYMA system," *Proc. 3rd Int. Workshop on Hardware/Software Codesign (CODES/CASHE'94)*, pp. 100-107, 1994.  
[Abstract](#) | [Full Text: PDF \(428KB\)](#)
- 3 J.-M. Daveau, T. B. Ismail, and A. A. Jerraya, "Synthesis of system-level communication by an allocation-based approach," *Proc. 8th Int. Symp. System Synthesis*, pp. 150-155, 1995.  
[Abstract](#) | [Full Text: PDF \(488KB\)](#)
- 4 J. Madsen and B. Hald, "An approach to interface synthesis," *Proc. 8th Int. Symp. System Synthesis*, pp. 16-21, 1995.  
[Abstract](#) | [Full Text: PDF \(444KB\)](#)
- 5 S. Narayan and D. D. Gajski, "Protocol generation for communication channels," *Proc. 31th DAC*, pp. 547-548, 1994.
- 6 M. Eisenring and J. Teich, "Domain-specific interface generation from dataflow specifications," *Proc. 6th Int. Workshop on Hardware/Software Codesign (CODES/CASHE'98)*, pp. 43-47, 1998.  
[Abstract](#) | [Full Text: PDF \(72KB\)](#)
- 7 G. Gogniat, M. Auguin, L. Bianco, and A. Pegatoquet, "Communication synthesis and HW/SW integration for embedded system design," *Proc. 6th Int. Workshop on Hardware/Software Codesign (CODES/CASHE'98)*, pp. 49-53, 1998.  
[Abstract](#) | [Full Text: PDF \(32KB\)](#)
- 8 J. Smith and G. De Micheli, "Automated composition of hardware components," *Proc. 35th Design Automat. Conf.*, pp. 14-19, 1998.  
[Abstract](#) | [Full Text: PDF \(588KB\)](#)
- 9 J. Zhu, R. Doïmer, and D. D. Gajski, "Syntax and semantics of the specC language," *Proc. SASIMI Workshop*, pp. 75-82, 1997.
- 10 A. J. Daga and W. P. Birmingham, "Interface finite-state machines: Definition, minimization, and decomposition," *IEEE Trans. Computer-Aided Design*, vol. 16, pp. 497-505, May 1997.  
[Abstract](#) | [Full Text: PDF \(320KB\)](#)
- 11 F. Vahid and L. Tauro, "Object-oriented communication library for hardware-software codesign," *Proc. 5th Int. Workshop on Hardware/Software Codesign (CODES/CASHE'97)*, pp. 81-86, 1997.  
[Abstract](#) | [Full Text: PDF \(508KB\)](#)
- 12 K. Hines and G. Borriello, "Dynamic communication models in embedded system cosimulation," *Proc. 34th Design Automat. Conf.*, pp. 395-402, 1997.  
[\[CrossRef\]](#)

- 13 D. Verkest, K. Van Rompaey, I. Bolsens, and H. De Man, "CoWare\—A design environment for heterogeneous hardware/software systems," *Design Automat. Embedded Syst.*, vol. 1, no. 4, pp. 357-386, 1996.
- 14 P. Bjørn-Jørgensen and J. Madsen, "Critical path driven cosynthesis for heterogeneous target architectures," *Proc. 5th Int. Workshop on Hardware/Software Codesign (CODES/CASHE'97)*, pp. 15-19, 1997.  
[Abstract](#) | [Full Text: PDF \(400KB\)](#)
- 15 Y. Kwok and I. Ahmad, "Dynamic critical-path scheduling: An effective technique for allocating task graphs to multiprocessors," *IEEE Trans. Parallel Distrib. Syst.*, vol. 7, no. 5, pp. 506-521, May 1993.  
[Abstract](#) | [Full Text: PDF \(1916KB\)](#)
- 16 *Universal Serial Bus Specification, Revision 1.0*, Jan. 1996.
- 17 1993\—*Road Vehicle's\—Interchange of Digital Information\—Controller Area Network (CAN) for High-Speed Communication*, ISO 11898.
- 18 PCI Special Interest Group *PCI Local Bus Specification, Revision 2.1*, June 1995.
- 19 *SCC/ESCC and ISCC Family of Products User's Manual*: Zilog, Inc., 1997.
- 20 J. Garney, *An analysis of throughput characteristics of universal serial bus: Media and Interconnect Technology*, Intel Architecture Labs, Tech. Rep., June 1996.
- 21 P. V. Knudsen and J. Madsen, "PACE: A dynamic programming algorithm for hardware/software partitioning," *Proc. 4th Int. Conf. on Hardware/Software Codesign (CODES/CASHE'96)*, pp. 85-92, 1996.  
[Abstract](#) | [Full Text: PDF \(684KB\)](#)
- 22 G. M. Arndahl, "The validity of the single processor approach to achieving large scale computing capabilities," *AFIPS Conf. Proc.*, vol. 30, pp. 483-485, 1967.

#### Citing Documents

- 1 Scheduling with bus access optimization for distributed embedded systems, Eles, P.; Doboli, A.; Pop, P.; Peng, Z.  
*Very Large Scale Integration (VLSI) Systems, IEEE Transactions on*  
On page(s): 472-491, Volume: 8, Issue: 5, Oct 2000  
[Abstract](#) | [Full Text: PDF \(420\)](#)
- 2 An architecture and compiler for scalable on-chip communication, Jian Liang, Laffely, A.; Srinivasan, S.; Tessier, R.  
*Very Large Scale Integration (VLSI) Systems, IEEE Transactions on*  
On page(s): 711-726, Volume: 12, Issue: 7, July 2004  
[Abstract](#) | [Full Text: PDF \(1472\)](#)
- 3 Scheduling and mapping in an incremental design methodology for distributed real-time embedded systems, Pop, P.; Eles, P.; Zebo Peng; Pop, T.  
*Very Large Scale Integration (VLSI) Systems, IEEE Transactions on*  
On page(s): 793-811, Volume: 12, Issue: 8, Aug. 2004  
[Abstract](#) | [Full Text: PDF \(1064\)](#)